

## EAST Search History

| Ref # | Hits   | Search Query                              | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|---|------------------|---------|------------------|
| S2    | 7898   | write current                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2006/06/05 13:32 |
| S3    | 71739  | word adj line                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2006/06/05 13:32 |
| S4    | 81313  | bit adj line                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2006/06/05 13:33 |
| S6    | 131216 | MRAM or magnetoresistive or ferromagnetic | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2006/06/05 13:34 |
| S7    | 669    | S5 and S6                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2006/06/05 13:34 |
| S8    | 0      | S7 and S1                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2006/06/05 13:34 |
| S9    | 1547   | S2 and S3 and S4                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2006/06/05 13:34 |
| S10   | 0      | S9 and S1                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2006/06/05 13:34 |

## EAST Search History

|     |      |  |   |     |    |                  |
|-----|------|--|---|-----|----|------------------|
| S11 | 1517 | 365/158.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:35 |
| S12 | 267  | 365/50.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:35 |
| S13 | 1693 | 365/49.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:35 |
| S14 | 3446 | S11 or S12 or S13  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:35 |
| S16 | 276  | (rotate or change) near (direction<br>or field) near (steps or stages) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:38 |
| S17 | 0    | S16 and S7   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:38 |
| S18 | 4    | S16 and S6   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:38 |
| S19 | 2    | S18 and S2   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:39 |

## EAST Search History

|     |       |                      |   |     |    |                  |
|-----|-------|----------------------|---|-----|----|------------------|
| S20 | 40    | freitag-martin.in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:39 |
| S21 | 10    | miethaner-stefan.in. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:39 |
| S22 | 16    | raberg-wolfgang.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:39 |
| S23 | 62    | S20 or S21 or S22    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:39 |
| S24 | 1     | S23 and S7           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:40 |
| S25 | 21569 | infineon.as.         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:40 |
| S26 | 8     | S15 and S25          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:40 |
| S15 | 272   | S14 and S7           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:48 |

## EAST Search History

|     |         |                             |   |     |    |                  |
|-----|---------|-----------------------------|---|-----|----|------------------|
| S27 | 883260  | offset                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:48 |
| S5  | 823     | S2 same S3 same S4          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:50 |
| S28 | 62      | S27 and S15                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 13:50 |
| S29 | 6       | S2 same S3 same S4 same S27 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 14:01 |
| S31 | 1       | S15 and S30                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 14:01 |
| S30 | 29810   | successive near steps       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 14:02 |
| S32 | 3684139 | steps                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 14:02 |
| S33 | 150     | S32 and S15                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 14:02 |

## EAST Search History

|     |       |                              |   |     |    |                  |
|-----|-------|------------------------------|---|-----|----|------------------|
| S34 | 0     | S1 and S2                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 14:22 |
| S35 | 6     | S23 and S2                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 14:24 |
| S36 | 1     | S5 and S13                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 14:24 |
| S38 | 12    | half adj select adj method   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 14:26 |
| S39 | 7068  | write near (method or steps) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 14:26 |
| S40 | 27    | S37 and S39                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 14:26 |
| S37 | 273   | S5 and S14                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 14:31 |
| S41 | 29673 | iwata.in.                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/05 14:32 |

## EAST Search History

|     |         |                 |   |     |     |                  |
|-----|---------|-----------------|---|-----|-----|------------------|
| S42 | 30      | S37 and S41     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/05 14:38 |
| S43 | 1       | ("7050325").PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2006/06/05 14:40 |
| S44 | 3949221 | layer           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/05 14:41 |
| S45 | 1       | S43 and S44     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/05 14:41 |
| S46 | .36975  | logic "1"       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/06 15:00 |
| S47 | 7911    | write current   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/06 15:00 |
| S48 | 81394   | bit adj line    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/06 15:00 |
| S49 | 71808   | word adj line   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/06 15:00 |

## EAST Search History

|     |         |  |   |     |    |                  |
|-----|---------|--|---|-----|----|------------------|
| S50 | 23904   | current near flow near direction           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/06 15:00 |
| S51 | 1008184 | delay\$3                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/06 15:01 |
| S52 | 0       | S46 same S47 same S48 same S49<br>same S50 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/06 15:01 |
| S53 | 7       | S47 same S48 same S49 same S50             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/06 15:02 |
| S54 | 3129    | current near "same direction"              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/06 15:03 |
| S55 | 0       | S47 same S48 same S49 same S54             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/06 15:03 |
| S56 | 825     | S47 same S48 same S49                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/06 15:03 |
| S57 | 44      | S56 and S54                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/06 15:04 |

## EAST Search History

|     |       |                 |   |     |     |                  |
|-----|-------|-----------------|---|-----|-----|------------------|
| S58 | 7     | S57 and S51     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/06 15:04 |
| S59 | 5     | ("3375503").PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2006/06/07 09:26 |
| S60 | 29675 | iwata.in.       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 09:26 |
| S61 | 7184  | MRAM            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 09:26 |
| S62 | 135   | S60 and S61     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 09:27 |
| S63 | 7911  | write current   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 09:27 |
| S64 | 67    | S62 and S63     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 09:27 |
| S65 | 7911  | write current   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 09:42 |



## EAST Search History

|     |         |                       |   |     |    |                  |
|-----|---------|-----------------------|---|-----|----|------------------|
| S66 | 71808   | word adj line         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 09:42 |
| S67 | 81394   | bit adj line          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 09:42 |
| S68 | 4644873 | step\$1 or stage\$2   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 09:43 |
| S69 | 825     | S65 same S66 same S67 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 09:43 |
| S70 | 33      | S68 same S69          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 09:45 |
| S71 | 486     | S68 and S69           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 09:45 |
| S72 | 1696    | 365/49.ccls.          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 09:45 |
| S73 | 1       | S71 and S72           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 09:45 |
| S74 | 1       | (US-6509621-\$).did.  | USPAT   | ADJ | ON | 2006/06/07 10:07 |

## EAST Search History

|     |          |                       |   |     |    |                  |
|-----|----------|-----------------------|---|-----|----|------------------|
| S75 | 25618531 | "0" or "1"            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 10:10 |
| S76 | 1        | S74 and S75           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 10:32 |
| S77 | 4292     | write control circuit | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 10:32 |
| S78 | 7184     | MRAM                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 10:32 |
| S79 | 259      | S77 and S78           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 10:32 |
| S80 | 283      | S77 same S66 same S67 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 10:32 |
| S81 | 81       | S78 and S80           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 10:34 |
| S82 | 161      | S79 and S69           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 10:48 |

## EAST Search History

|     |       |                                      |   |     |    |                  |
|-----|-------|--------------------------------------|---|-----|----|------------------|
| S83 | 5187  | write near control (unit or circuit) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 10:59 |
| S84 | 15874 | write near "1"                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 10:59 |
| S86 | 1552  | S65 and S66 and S67                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 11:02 |
| S87 | 83    | S86 and S83 and S84                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 11:02 |
| S85 | 38    | S69 and S83 and S84                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 11:07 |
| S88 | 656   | S69 and S78                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 11:07 |
| S89 | 165   | S83 and S88                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 11:07 |
| S90 | 34    | S84 and S89                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 11:08 |

## EAST Search History

|     |       |  |   |     |     |                  |
|-----|-------|--|---|-----|-----|------------------|
| S91 | 38665 | writ\$3 near (circuit or unit)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:08 |
| S92 | 318   | S69 and S78 and S91                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:09 |
| S93 | 85    | S92 and S84                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:09 |
| S94 | 40    | freitag-martin.in.                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:15 |
| S95 | 10    | miethaner-stefan.in.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:15 |
| S96 | 16    | raberg-wolfgang.in.                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:15 |
| S97 | 62    | S94 or S95 or S96                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:15 |
| S1  | 9     | ((("5864498") or ("4547866") or ("3375503")).PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2006/06/07 11:18 |

## EAST Search History

|          |       |  |   |     |     |                  |
|----------|-------|--|---|-----|-----|------------------|
| S98      | 9     | ((("5864498") or ("4547866") or ("3375503")).PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2006/06/07 11:19 |
| S99      | 9     | S98  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:19 |
| S10<br>0 | 1     | S99 and write circuit                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:19 |
| S10<br>1 | 23030 | write near (circuit or unit)                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:21 |
| S10<br>2 | 7184  | MRAM   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:21 |
| S10<br>3 | 86977 | (bit line or bitline)                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:21 |
| S10<br>4 | 78162 | word line or wordline                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:22 |
| S10<br>5 | 10120 | write near current                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2006/06/07 11:22 |

## EAST Search History

|          |       |   |   |     |    |                  |
|----------|-------|---|---|-----|----|------------------|
| S10<br>6 | 7911  | write current                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 11:22 |
| S10<br>7 | 759   | S101 same S106                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 11:22 |
| S10<br>8 | 235   | S102 and S103 and S104 and S107           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 11:22 |
| S10<br>9 | 5105  | write near driver                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:11 |
| S11<br>0 | 131   | write near driving near (unit or circuit) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:11 |
| S11<br>1 | 5190  | S109 or S110                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:11 |
| S11<br>2 | 78162 | word line or wordline                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:12 |
| S11<br>3 | 86977 | bit line or bitline                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:12 |

## EAST Search History

|          |        |                                   |   |     |    |                  |
|----------|--------|-----------------------------------|---|-----|----|------------------|
| S11<br>4 | 7911   | write current                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:12 |
| S11<br>5 | 854    | S112 same S113 same S114          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:12 |
| S11<br>6 | 7184   | MRAM                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:12 |
| S11<br>7 | 129    | S111 and S115 and S116            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:12 |
| S11<br>8 | 1680   | control with (write near current) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:13 |
| S11<br>9 | 73     | S117 and S118                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:55 |
| S12<br>0 | 15874  | write near "1"                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:55 |
| S12<br>1 | 360073 | "same direction"                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:55 |

## EAST Search History

|          |      |   |   |     |    |                  |
|----------|------|---|---|-----|----|------------------|
| S12<br>2 | 5    | delay\$3 near write current                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:56 |
| S12<br>3 | 49   | S115 same S121                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:56 |
| S12<br>5 | 0    | S122 and S124                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:56 |
| S12<br>4 | 13   | S120 and S123                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:57 |
| S12<br>6 | 3129 | current near S121                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:57 |
| S12<br>7 | 0    | S126 and S115 and S116 and S120<br>and S122 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:57 |
| S12<br>8 | 8    | S126 and S115 and S116 and S120             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:59 |
| S12<br>9 | 44   | S126 and S115 and S116                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/06/07 13:59 |